

Claims

[c1] What is claimed is:

1. An optical storage drive with functions of detecting being turned over comprising:
a housing;
a detecting device used for sensing whether the housing is turned over; and
a control device that is electrically connected to the detecting device and used for stopping the operation of the optical storage drive when the detecting device senses the housing being turned over.

[c2] 2. The optical storage drive of claim 1 wherein the control device is used for turning off the power of the optical storage drive when the housing is turned over.

[c3] 3. The optical storage drive of claim 1 wherein the detecting device, being set up on the top of the housing, is a turned over button, which indicates the optical storage drive is turned over when the turned over button is pressed.

[c4] 4. The optical storage drive of claim 1 further comprising:
an insertion slot that is set up in the housing and used

for accepting an inserted optical disc; and
a roller that is set up inside the housing and used for pulling the optical disc that is inserted in the insertion slot into the housing.

[c5] 5.The optical storage drive of claim 4 wherein the control device is used for stopping the operation of the roller of pulling the optical disc when the housing is turned over.

[c6] 6.The optical storage drive of claim 1 wherein the detecting device comprises a pressure detector used for detecting a change in pressure.

[c7] 7.The optical storage drive of claim 1 wherein the detecting device comprises an optical detector used for detecting a change in light.

[c8] 8.The optical storage drive of claim 1 wherein the detecting device comprises a gravity detector used for detecting a change in gravity direction.

[c9] 9.A method used for preventing an optical storage drive from operating when it is turned over comprising:
(a) detecting whether a detecting device generates a reaction indicating the optical storage drive being turned over; and
(b) stopping the operation of the optical storage drive when the reaction is detected.

- [c10] 10.The method of claim 9 wherein step (b) comprises turning off the power of the optical storage drive when the reaction is detected that the optical storage drive is turned over.
- [c11] 11.The method of claim 9 wherein step (b) comprises stopping the operation of pulling the optical disc with the roller of the optical storage drive when the reaction is detected that the optical storage drive is turned over.
- [c12] 12.The method of claim 9 wherein step (b) comprises executing the operation of ejecting the optical disc when the reaction is detected that the optical storage drive is turned over.
- [c13] 13.The method of claim 9 further comprising:
(c) sounding an alarm when the reaction is detected that the optical storage drive is turned over.
- [c14] 14. The method of claim 9 further comprising:
(d) outputting a warning signal when the reaction is detected that the optical storage drive is turned over.